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NAS PENSACOLA
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PRESENTATION SLIDES FOR RESTORATION ADVISORY BOARD MEETING 1 AUGUST
2006 NAS PENSACOLA FL
8/1/2006
U S NAVY

NAS Pensacola IR Program

- ✦ Bill Hill – NAV FAC Southeast
- ✦ Greg Campbell - NAS Pensacola,
Environmental Department



Screening Sites With “No Further Action” Required

- ☀ Site 13 Magazine Point Rubble Disposal
- ☀ Site 5 Borrow Pit
- ☀ Site 4 Army Rubble Disposal
- ☀ Site 16 Brush Disposal Area
- ☀ Site 36 IWTP Sewer Line
- ☀ Site 14 Dredge Spoil Fill
- ☀ Site 28 Transformer Accident
- ☀ Site 18 PCB Spill Area
- ☀ Site 34 Solvent North of Building 3557
- ☀ Site 7 Firefighting School
- ☀ Site 10 Commodore’s Pond

Screening Sites With No Further Action Obtained



Records of Decision Complete

- ★ OU 10 (Sites 32, 33 and 35) Industrial Waste Water Treatment Plant (ROD 9/15/97)
- ★ OU 12 (Site 39) Oak Grove Campground (ROD 8/30/95)
- ★ OU 14 (Site 17) Transformer Storage Yard (ROD 9/25/98)
- ★ OU 1 (Site 1) Sanitary Landfill (ROD 9/25/98)
- ★ OU 4 (Site 15) Pesticide Rinsate Disposal Area (ROD 9/27/00)
- ★ OU 6 (Sites 9 and 29) Navy Yard Disposal and Soil South of Building 3460 (ROD 9/23/99)
- ★ OU 17 (Site 42) Pensacola Bay (ROD 9/25/98)



Recent Records of Decision Complete

- ★ OU 15 (Site 40) Bayou Grande – (ROD 4/09/05 – No Further Action)
- ★ OU 03 (Site 2) Waterfront Sediments – (ROD 9/28/05 - No Further Action)

Records of Decision Complete



Remaining Sites

- ★ OU 02 [Sites 11, 12, 25, 26, 27, & 30 – North Chevalier Field Industrial Area sites
- ★ OU 11 (Site 38) Building 71 & Sewer Line
- ★ OU 13 (Sites 8 and 24) Rifle Range Disposal and DDT Mixing Area
- ★ OU 16 (Site 41) NAS Pensacola Wetlands



Remaining Sites Continued

- ✱ Site 43 Demolition Debris Disposal Area 43
- ✱ Site 44 Former UST 3221SW
(Screening Site)
- ✱ Site 45 Building 603 Lead (Screening
Site)
- ✱ Site 46 Former Building 72 (Screening
Site)

Remaining Sites



OU 2 (Sites 11, 12, 25, 26, 27 and 30)

- ✱ Final Feasibility has been submitted and approved by Regulatory Agencies
- ✱ The Proposed Plan is currently being completed
- ✱ ROD is scheduled for June 2007

OU 11 (Site 38)

- ✱ Former Building 71 (Metal Plating Operations) and Building 604 area
- ✱ ROD completion date – August 30, 2006
- ✱ Selected Remedies
 - ✱ Land Use Control to limit exposure to soil
 - ✱ Land Use Control to restrict residential activities
 - ✱ Land Use Control to restrict groundwater use, and
 - ✱ Groundwater Monitored Natural Attenuation until cleanup

OU 13 (Sites 8 and 24)

- ★ Site 8 - Rifle Range Disposal Area and DDT Mixing Area and Site 24 - Former DDT Mixing Area
- ★ ROD completion date – August 30, 2006
- ★ Selected Remedy –
 - ★ Land Use Control to limit groundwater use,
 - ★ Groundwater MNA until cleanup

OU 16 (Site 41 NAS Pensacola Wetlands)

- ★ RI Addendum report submitted to Regulatory Agencies in 2005
- ★ Regulatory Comments are currently being addressed
- ★ Final Feasibility Study scheduled for next year

Site 43 (Demolition Debris Disposal Area 43)

- ✱ Final Remedial Investigation Report submitted March 2006
- ✱ Report is currently being reviewed by regulatory agencies
- ✱ A Feasibility Study is recommended due to groundwater contaminant exceedances

Sites 44, 45, and 46 (Screening)

- ★ Site 44 – Former UST Site 3221
- ★ Site 45 – Building 603 Lead Site
- ★ Site 46 – Former Building 72 Site
- ★ Fieldwork at all sites recently completed
SCRs due out this fall



Land Use Controls Memorandum of Agreement

- ✱ NAS Pensacola, EPA, and FDEP entered into this Agreement in 1999.
- ✱ Annual Compliance Reports are submitted from NAS Pensacola to EPA and FDEP to confirm agreed upon Land Use Controls are still in place.

MOA UPDATE

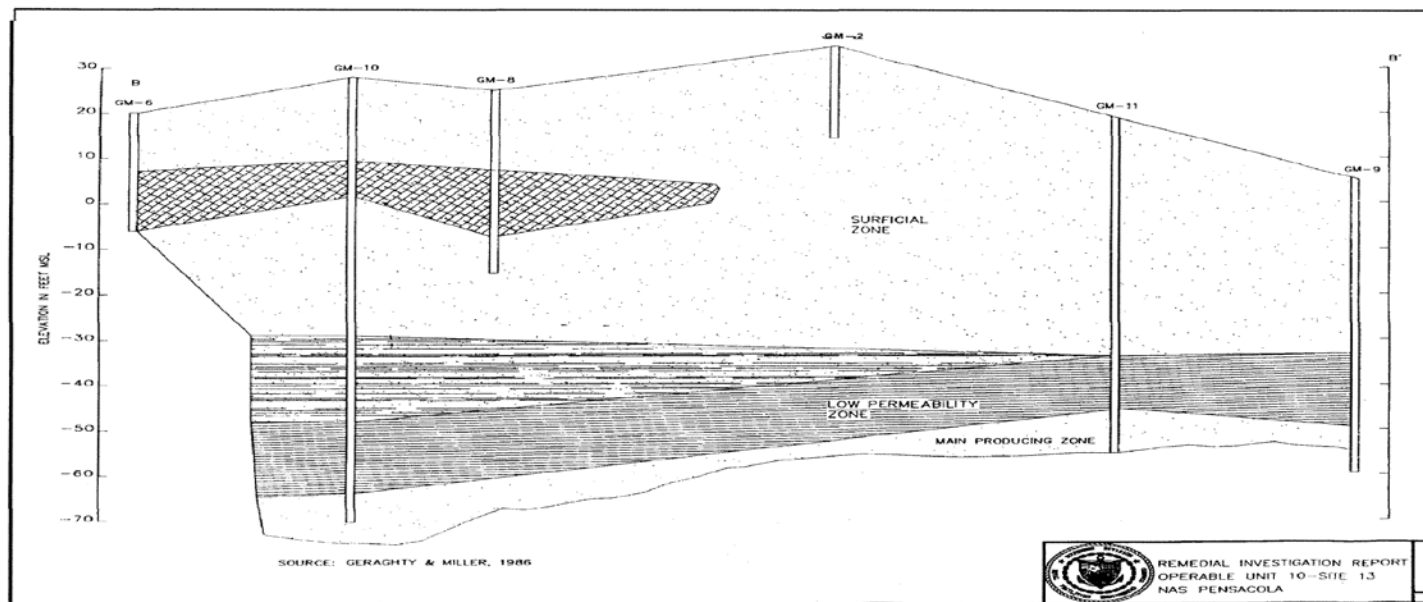
- ★ Sites with Institutional Controls
 - ★ OU 1 (Site 1) No intrusive activities, no potable groundwater use
 - ★ OU 4 (Site 15) Industrial Use Only and no potable groundwater use



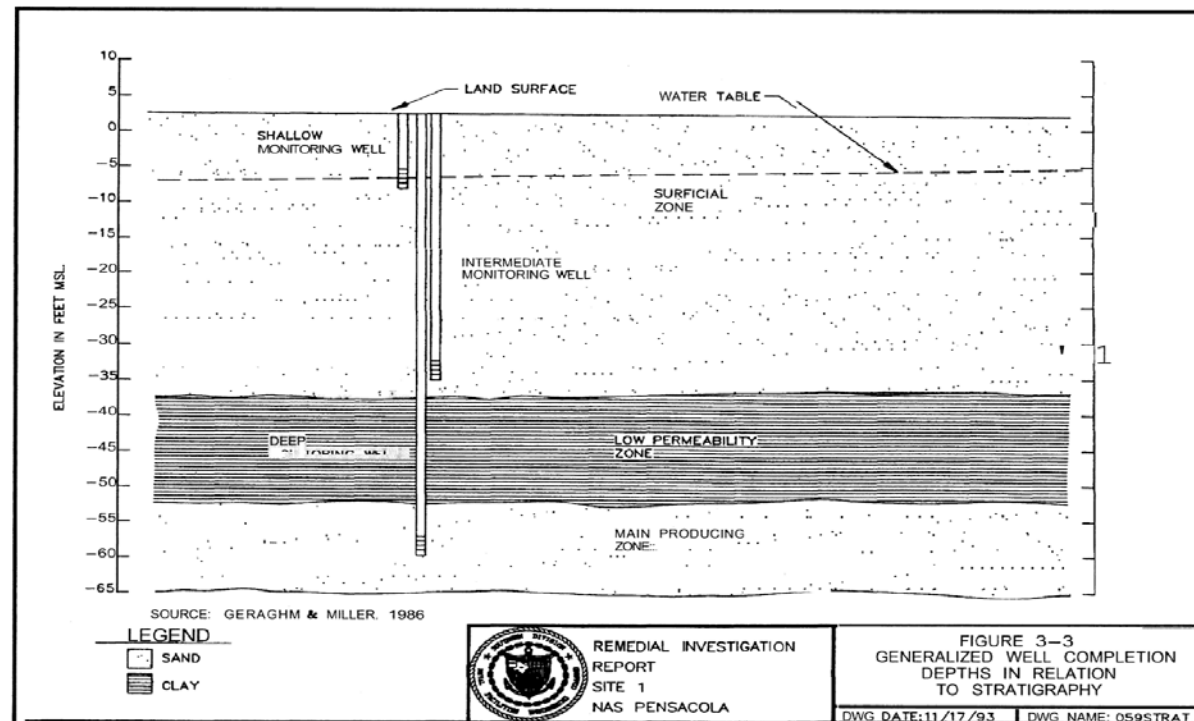
Facility-wide Shallow Groundwater Flow



Facility-wide Groundwater Flow - Hydrostratigraphy



Facility-wide Groundwater - Monitoring Well Framework



Facility-wide Groundwater Flow and Deep Well Analysis

- ★ Combined Shallow/Intermediate depth groundwater flow is markedly different from Deep groundwater flow
- ★ Shallow/Intermediate flow patterns indicative near-surface discharge, influenced by surface water discharge features (streams, wetlands, bayous...)
- ★ Deep flow patterns indicative of deeper discharge zones offshore
- ★ Confining Layer separates shallow/intermediate and Deep flow zones as indicated by
 - Vertical gradients - upward gradients closer to shore
 - Permeability above deep zone acts as confining layer

Facility-wide Deep Well Analysis

- ★ Monitoring Wells & Production wells sampled in 1993
 - No organics detected
 - Metals detected within expected range
- ★ All deep Monitoring wells were abandoned in 1994

OU 1 Optimization Study Results

- ☀ Optimization Study completed May 2006 and submitted for Regulatory review
- ☀ Optimization Study Recommendations
 - Discontinue Interceptor Trench pumping
 - Discontinue Interceptor Trench monitoring
 - Modify ROD relative the changes in Interceptor Trench
 - Continue monitoring Wetland 3
 - Incorporate Site 41 (Wetlands site) Feasibility Study recommendations in Wetland 3 area
 - Implement Action Plan if unacceptable ecological risks are reported



OU 1 Cemetery Expansion